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CLAIMS

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- 10047500-011402
1. A remote shut-off valve comprising a diaphragm valve and a pilot valve, the diaphragm valve having an inlet, an outlet, a valve member and a valve seat, the valve member having a closed position in which it engages the seat and blocks fluid flow from the inlet to the outlet and an open position in which the valve member does not engage the valve seat and fluid can flow from the inlet to the outlet, a first fluid conduit connecting the inlet of the diaphragm valve to the inlet of the pilot valve and a second fluid conduit connecting the outlet of the pilot valve to the outlet of the diaphragm valve, the diaphragm valve having a control chamber, and a flow channel connecting the control chamber to the diaphragm valve inlet, wherein the flow channel is located within the body of the diaphragm valve.
 2. A remote shut-off valve according to claim 1 wherein the body of the diaphragm valve includes a removable cap member which provides the control chamber, the flow channel being located within the cap member.
 3. A remote shut-off valve according to claim 2 wherein a part of the fluid conduits are formed within the cap member, and in which the flow channel comprises a branch in the first fluid conduit within the cap member.
 4. A remote shut-off valve according to claim 2 wherein the diaphragm valve includes a housing, and wherein the periphery of the valve member is clamped between the cap member and the housing.
 5. A remote shut-off valve according to claim 1 wherein part of the first and second fluid conduits are provided by respective flexible tubes.
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6. A remote shut-off valve according to claim 5 wherein the flexible tubes are secured to the body of the diaphragm valve by way of quick-release connectors.

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7. A remote shut-off valve according to claim ⁵ wherein the quick-release connectors include respective O-ring seals which can engage a part of a flexible tube and provide a seal therearound.

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8. A remote shut-off valve according to claim ⁶ wherein releasable securing means are provided to secure the flexible tubes within the respective O-ring seal.

9. A remote shut-off valve according to claim 8 wherein the releasable securing means for securing the flexible tubes to the body of the diaphragm valve comprises a securing housing within which both of the flexible tubes are retained, the securing housing carrying locking means to lock the securing housing to the body of the diaphragm valve.

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10. A remote shut-off valve according to claim ⁸ wherein the flexible tubes are at least partially resilient, and wherein part of each tube is retained in the securing housing within a respective curved channel.

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11. A remote shut-off valve according to claim ⁹ wherein each curved channel is bordered by a wall, and a part of the wall has an opening through which the flexible tube may be passed.

12. A remote shut-off valve according to claim 5 wherein the pilot valve is located within a valve housing, and wherein the valve housing includes a respective curved channel for each of the flexible tubes.

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~~13.~~ A remote shut-off valve according to claim 1 in which
the pilot valve is non-directional.

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